## Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for identifying one or more color calibration profiles for use with a scan of a printed image, comprising: scanning the printed image to generate scanned image data; determining a spatial characteristic of the printed image from the scanned image data; comparing the spatial characteristic of the scanned printed image with spatial characteristics associated with color calibration profiles; and selecting one or more color calibration profiles based on the comparison of the spatial characteristics, wherein the selected color calibration profile alters a chrominance value, and the selecting comprises executing the following decision tree: first, distinguishing between a continuous marking process and a halftone marking process based on a degree of local variation; second, determining whether a halftone marking process is identified and, if a halftone marking process is identified, distinguishing between an ink-jet marking process and a xerographic or offset marking process based on a degree of periodicity, and if a halftone marking process is not identified, ending the executing of the decision tree; and third, determining if a xerographic or offset marking process is identified and, if a xerographic or an offset marking process is identified, distinguishing between a xerographic marking process and an offset marking process based on a degree of noise.

- 2. (Currently Amended) The method in claim 1, wherein the spatial characteristics associated with the color calibration profiles are determined from scans of color calibration targets used in creating the color calibration profiles.
- 3. (Currently Amended) The method in claim 2, wherein the spatial characteristics associated with the color calibration profiles are determined during the creation of the color calibration profiles.
- 4. (Currently Amended) The method in claim 3, wherein the spatial characteristics associated with the color calibration profiles are stored with the color calibration profiles.
- 5. (Currently Amended) The method in claim 3, wherein the spatial characteristics associated with the color calibration profiles are stored within private tags in the color calibration profiles.
- 6. (Currently Amended) The method of claim 1, wherein the comparing comprises computation of a distance measure between the spatial characteristic of the image and the spatial characteristics associated with the color calibration profiles.
- 7. (Currently Amended) The method of claim 6, wherein the selecting further comprises choosing one or more color calibration profiles which are closest with respect to the distance measure.
- 8. (Previously Presented) The method of claim 1, wherein the determining of a spatial characteristic further comprises:

statistically analyzing the scan of the printed image; and
determining spatial variations in the printed image based at least on the results
of the statistical analysis of the scanned image data.

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- 9. (Currently Amended) The method of claim 1, wherein selecting one or more color calibration profiles is performed automatically.
- 10. (Currently Amended) The method of claim 1, wherein selecting one or more color calibration profiles is performed by blending multiple color calibration profiles using at least weighting factors determined from said comparison of the spatial characteristic of the scanned image with the spatial characteristics associated with the color calibration profiles.
- 11. (Currently Amended) The method of claim 1, wherein selecting one or more color calibration profiles comprises:

automatically processing a group of pre-selected color calibration profiles to generate candidate color calibration profiles; and

manually selecting one or more color calibration profiles from the candidate color calibration profiles.

12-49. (Canceled)